PAT-NO: JP403051956A

DOCUMENT-IDENTIFIER: JP 03051956 A

TITLE: AUTOMATIC TELLER MACHINE

PUBN-DATE: March 6, 1991

INVENTOR-INFORMATION:
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NAME   COUNTRY
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APPL-NO: JP01187177

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INT-CL (IPC):   G06F015/30, G06K017/00 , G07D009/00

ABSTRACT:

    PURPOSE: To improve the convenience of the ATM by reading,
totalizing, and
displaying transaction history data stored on an IC card when a
transaction is
carried on by using an IC card.

    CONSTITUTION: The **ATM** is equipped with the microcomputer
consisting of a
main CPU 30, a ROM 31, and a RAM 32, a CRT control part 34, a card
reader 36,
etc., and reads, totalizes, and **displays the transaction history** data
stored on
the IC card when the **transaction** is made by using the IC card.
Consequently, a
user can confirm the totalization result up to the current point
every time a
transaction is made and released from the trouble of totalizing
calculation
after data is read out of the IC card unlike before and the
totalization and

display processing are carried out in parallel to the money input/output
processing of paper currency, etc., specially after transaction contents are
inputted. Further, waiting time which has been wasted heretofore can be
utilized effectively.

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S39	5	S38 and (smart IC) adj1 card	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 16:09
S38	31	(compar$3 match$3) with balance with terminal with data	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 16:08
S37	31	S21 and S36	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 13:27
S36	5195	(compar$4 match$3) with first with second with (data record transaction) with set	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 13:26
S34	105	(compar$4 match$3) with first with second with (data transaction) with (lost missing deleted)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 13:25
S30	170	S21 and (compar$4 match$3 evaluat$3) with first with second with (data transaction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 12:55
S33	1	S32 and (missing lost) near3 data	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 12:54
S32	9	S22 and S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 12:54

EAST Search History

S31	7	S21 with (compar$4 match$3 evaluat$3) with first with second with (data transaction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 12:43
S29	128	S21 and (compar$4 match$3 evaluat$3) with terminal with data	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 12:41
S28	13	S21 with (compar$4 match$3 evaluat$3) with terminal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 12:34
S26	300	S21 with (compar$4 match$3 evaluat$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 12:32
S27	14	S25 and S26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 12:11
S24	1778	S21 with (us$3 utiliz$5 exploit$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 12:08
S25	78	S22 and S24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 12:07
S22	165	S21 with (smart IC) adj2 card	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 12:04

EAST Search History

S23	668	S21 with card	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 12:00
S21	4786	transaction with history	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 11:59